

1632
J. J. J.IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Readhead et al.
Serial No. 10/054,143
Filed: November 12, 2001
For: IN VITRO TRANSFECTION, STORAGE AND
TRANSFER OF MALE GERM CELLS FOR
GENERATION OF TRANSGENIC SPECIES & GENETIC
THERAPIES
Examiner: Woitach, J
Unit: 1632
Confirmation No.: 6154

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

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I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO THE COMMISSIONER FOR PATENTS	
ALEXANDRIA, VIRGINIA 22313-11450, ON	May 18, 2004
BY	DATE
ANN WEISS	
May 18, 2004	
(DATE OF SIGNATURE)	

Dear Sir:

Applicant's attorney submits herewith Form PTO-1449, "Information Disclosure Statement" by Applicant. A copy of each of the disclosed patent references and other references listed as other documents Nos. 1-89 is not being submitted herewith, because under Rule 37 C.F.R. § 1.98(d) this art has been cited by the Examiner and/or the Applicant in connection with U.S. Serial Nos. 10/054,365, 10/008,385, and 10/074,945, all filed November 12, 2001, which are divisionals of 09/191,920, filed November 13, 1998 and which issued November 13, 2001 as USPN 6,316,692. These previously filed Applications were cited by applicant in this present Application per 35 U.S.C. §§ 120 and 119(e).

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. 1.97(g)), an admission that the information cited is, or is considered to be, material to

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patentability or that no other material information exists (37 C.F.R. 1.97(h)). Further the filing of this information disclosure statement shall not be construed as an admission against interest in any manner.

The filing of this Information Disclosure Statement is after a first Office Action, therefore, the Commissioner is hereby authorized charge \$180.00 as a required fee and to credit overpayments or charge any fees required to Deposit Account No. 50-1597 under 37 C.F.R. 1.16 or C.F.R. 1.17.

Respectfully submitted,

By:

Nisan A. Steinberg, Ph.D.
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U.S.P.E. J.C.G.

FORM PTQ-1449 (Modified)

List of Patents and Publications for
Applicants Information Disclosure
Statement

ATTY DOCKET NO.
18810-81609

SERIAL NO.
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APPLICANT: Readhead et al.

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GROUP ART UNIT
1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
		4	6	6	3	2	8	1	05/05/87	Gillies et al.			
		4	7	6	2	7	0	1	08/09/88	Horan et al.			
		4	8	7	0	0	0	9	09/26/89	Evans et al.			
		4	9	5	9	3	1	3	09/25/90	Taketo			
		4	9	7	8	3	3	2	12/18/90	Luck et al.			
		5	1	7	5	3	8	4	12/29/92	Krimpenfort et al.			
		5	2	0	6	1	4	3	04/27/93	Horan et al.			
		5	3	5	8	7	1	1	10/25/94	May et al.			
		5	3	7	5	6	0	6	12/27/94	Slezak et al.			
		5	4	2	2	2	6	6	06/06/95	Cormier et al.			
		5	4	3	0	0	5	7	07/04/95	Anderson et al.			
		5	4	3	4	3	4	0	07/18/95	Krimpenfort et al.			
		5	4	9	1	0	8	4	02/13/96	Chalfie et al.			
		5	5	2	1	2	9	1	05/28/96	Curiel et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation	
							YES	NO
		WO 90/08192	07/26/90	EPO				
		WO 92/03459	03/05/92	PCT				
		WO 93/11228	06/10/93	PCT				
		WO 95/02041	01/19/95	PCT				
		EP 0 867 114 A1	09/30/98	EPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	1.		Avarbock, Mary R., et al., Reconstitution of spermatogenesis from frozen spermatogonial stem cells, <u>Nature Medicine</u> , Vol. 2, No. 6, pp. 693-696, (June, 1996).
	2.		Baranov, V. S., et al., <i>The possibility of the incorporation of macromolecules, including exogenous DNA, into the germ cells of male mice. The liposome method and Ca-P coprecipitation method</i> , <u>Tsitol Genet</u> , Vol.24, No.2, pp. 52-55 (Mar 1990). ABSTRACT ONLY

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DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609;
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		5	5	3	2	1	4	3	07/02/96	Grosveld et al.				
		5	5	4	7	9	3	2	08/20/96	Curiel et al.				
		5	5	4	3	2	9	1	08/06/96	Keyomarsi et al.				
		5	5	5	6	9	5	4	09/17/96	Burn et al.				
		5	5	5	9	1	4	8	09/24/96	Anderson et al.				
		5	5	9	1	6	2	5	01/07/97	Gerson et al.				
		5	5	9	1	6	6	9	01/07/97	Krimpenfort et al.				
		5	6	1	0	0	5	3	03/11/97	Chung et al.				
		5	6	2	5	0	4	8	04/29/97	Tsien et al.				
		5	6	3	9	6	1	8	06/17/97	Gay				
		5	6	4	3	7	4	1	07/01/97	Tsukamoto et al.				
		5	6	5	0	1	3	5	07/22/97	Contag et al.				
		5	6	6	5	5	5	7	09/09/97	Murray et al.				
		5	6	7	0	3	7	2	09/23/97	Hogan				
		5	7	5	0	3	7	6	05/12/98	Weiss et al.				
		5	7	6	7	2	5	8	06/16/98	Sidransky				
		5	7	7	7	0	7	9	07/07/98	Tsien et al.				
		5	8	2	1	2	3	4	10/13/98	Dzau				
		5	8	4	0	4	7	8	11/24/98	Patterson et al.				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation
		YES	NO										

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

3. *Birnstiel, Max L. et al., Dangerous Liaisons: Spermatozoa as Natural Vectors for Foreign DNA?, Cell, Vol. 57, pp. 701-702, (1989).*

EXAMINER	DATE CONSIDERED

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							YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	4.		Blanchard, K.. T. et al., <i>Adenovirus-mediated gene transfer to rat testis in vivo</i> , Biol Reprod (1997 Feb); 56(2):495-500
	5.		Brinster, Ralph L., et al., <i>No Simple Solution for Making Transgenic Mice</i> , Cell, Vol. 59, pp. 239-241, Oct 20, 1989
	6.		Brinster, Ralph L. et al., Avarbock, <i>Germline transmission of donor haplotype following spermatogonial transplantation</i> , Proc. Natl. Acad. Sci. USA, Vol. 91 pp. 22303-22307, (Nov. 1994) Developmental Biology.
	7.		Brinster, Ralph L. et al., <i>Spermatogenesis following male germ-cell transplantation</i> , Proc. Natl. Acad. Sci USA, Vo. 91, pp. 11298-11302, (Nov. 1994), Developmental Biology.
	8.		Chen, Shu-Hsia et al., <i>Gene therapy for brain tumors: Regression of experimental gliomas by adenovirus-mediated gene transfer in vivo</i> , Proc. Natl. Acad. Sci, USA, Vol. 91, pp. 3054-3057, April 1994
	9.		Chung, J. H. et al., <i>A 5' element of the chicken beta-globin domain serves as an insulator in human erythroid cells and protects against position effect in Drosophila</i> , Cell, 74(3):505-14, Aug 13, 1993, ABSTRACT ONLY
	10.		Chung, J. H. et al., <i>Characterization of the chicken beta-globin insulator</i> , Proc. Natl. Acad. Sci. USA, 94(2):575-80, January 21, 1997, ABSTRACT ONLY
	11.		Clouthier, D. E. et al., <i>Rat spermatogenesis in mouse testis</i> , Nature, 381 (6581): 418-421 (May 30, 1996).
	12.		Curiel D. T., et al. <i>Adenovirus enhancement of transferrin-polylysine-mediated gene delivery</i> , Proc. Natl. Acad. Sci-USA, 88:8850-54(Oct. 1991).

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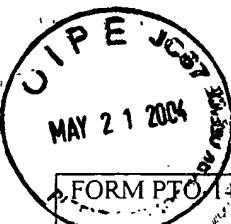
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	13.	Desdouets, C. et al., <i>Cyclin A: function and expression during cell proliferation,</i> <i>Prog Cell Cycle Res</i> , 1:115-23, 1995, ABSTRACT ONLY
	14.	Graberek & Gergely, <i>Zero-length cross-linking procedure with the use of active esters, Analyt. Biochem</i> 185: 131-135 (1990).
	15.	Hagstrom, K., et al., <i>Fab-7 functions as a chromatin domain boundary to ensure proper segment specification by the Drosophila bithorax complex, Genes Dev,</i> <i>10(24):3202-15, Dec 15, 1996, ABSTRACT ONLY</i>
	16.	Horiguchi-Yamada, J., et al., <i>Changes of G1 cyclins, edk2, and cyclin A during the differentiation of HL60 cells induced by TPA, Mol Cell Biochem,</i> <i>132(1):31-7, Mar 16, 1994, ABSTRACT ONLY</i>
	17.	Hovatta, Outi, et al., <i>Cryopreservation of human ovarian tissue using dimethylsulphoxide and propanediol-sucrose as cryoprotectants,</i> <i>Human Reproduction, Vol. 11, No. 6, pp. 1268-1272, (1996).</i>
	18.	Hovatta, Outi, et al., <i>Pregnancy resulting from intracytoplasmic injection of spermatozoa from a frozen-thawed testicular biopsy specimen,</i> <i>Human Reproduction, Vol. 11, No. 11, pp. 2472-2473, (1996).</i>
	19.	Jiang, F-X et al., <i>Male germ cell transplantation in rats: apparent synchronization of spermatogenesis between host and donor seminiferous epithelia, International Journal of Andrology, vol. 18, pp. 326-330 (1995)</i>

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

20.	Jiang, Fang-Xu et al., <i>Different fate of primordial germ cells and gonocytes following transplantation</i> , APMIS, Vol. 106, p. 58-63, (1998).
21.	Johnson L, et al., <i>Heterotopic transplantation as a model to study the regulation of spermatogenesis: some histomorphological considerations</i>
	<i>about sperm decline in man</i> ; Contracept Fertil Sex 1997 Vol. 25(7-8), pp. 549-553, (1997)
22.	Jones and Shenk, <i>An adenovirus type 5 early gene function regulates expression of other early viral genes</i> . Proc Natl. Acad. Sci. USA,
	76(8)3665-3669 (1979)
23.	Kang, M. J. et al., <i>Cyclins and cyclin dependent kinases during cardiac development</i> , Mol Cells, 7(3):360-6, (June 30, 1997) ABSTRACT ONLY
24.	Kim, Jin-Hoi et al., <i>Development of a Positive method for Male stem Cell-Mediated Gene Transfer in Mouse and Pig</i> , Molecular Reproduction and
	<i>Development</i> , Vol. 46, No. 4, pp. 515-526, (1997)
25.	Kim, V. Narry et al., <i>Minimal requirement for a Lentivirus Vector Based on Human Immunodeficiency Virus Type 1</i> , Journal of Virology, pp. 811-816,
	(Jan. 1998)
26.	Langer, Robert S. et al., <i>Tissue Engineering: The obstacles to building new organs from cells and synthetic polymers are daunting but surmountable</i>
	<i>The Challenges Ahead</i> , Scientific American, pp. 86-89, April 1999

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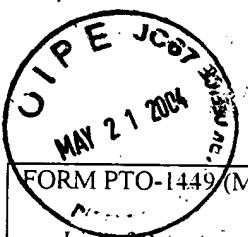
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	27.	Lavitrano, Maria Luisa et al., <i>Sperm Cells as Vectors for Introducing foreign DNA Into Eggs: Genetic Transformation of Mice</i> , Cell, Vol. 57, pp. 717-723, (6/2/89)
	28.	Mittereder et al., <i>Evaluation of the concentration and bioactivity of adenovirus vectors for gene therapy</i> , J. Virology, 70: 7498-7509 (1996)
	29.	Müller, C. et al., <i>Cell cycle regulated transcription of the promoter of the human cyclin A1 gene</i> , Blood, Journal of the American Society of Hematology, Vol. 90, No. 10, Suppl 1 (Part 1 of 2) Nov 15, 1997 ABSTRACT 1404
	30.	Müller, C. et al., <i>Cyclin A1 promoter is trans-activated by the c-myb proto-oncogene</i> , Proc. of the Amer. Assoc. for Cancer Res, Vol. 39, Mar/Apr 1998 ABSTRACT 1742
	31.	Müller, C. et al., <i>SP1 Family Members Regulate Expression of the Tissue Specific Human Cyclin A1 Gene</i> , Blood Journal of the American society of Hematology, Americ. Soc. Of Hemat. 40th Annual Meeting, Dec 4-8, 1998 ABSTRACT 1534
	32.	Müller, Carsten et al., <i>Cloning of the cyclin A1 Genomic Structure and Characterization of the Promoter Region</i> , The Journal of Biological Chemistry, Vol. 276, No. 16, pp. 11220-11228, Apr 16, 1998
	33.	Muramatsu T. et al., <i>Foreign gene expression in the mouse testis by localized in vivo gene transfer</i> , Biochem Biophys Res commun, 7:233(1):45-49 (Apr 1997)
	34.	Nagano, M, et al., <i>Spermatogonial transplantation and reconstitution of donor cell spermatogenesis in recipient mice</i> , APMIS, 106, PP. 47-55, (1998)

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					YES N

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

35.	Naito M. et al., <i>Production of germline chimeric chickens, with high transmission rate of donor-derived gametes, produced by transfer of primordial germ cells</i> . <i>Molecular Reprod Dev.</i> , 39(2):153-161 (Oct. 1994).
36.	Naito M. et al., <i>Donor primordial germ cell-derived offspring from recipient germline chimaeric chickens: absence of long-term immune rejection and effects on sex ratios</i> . <i>Br Poult Sci.</i> , 39(1):20-23 (Mar. 1998).
37.	Naldini, Luigi et al., <i>In Vivo Gene Delivery and Stable Transduction of Nondividing Cells by a Lentiviral Vector</i> . <i>Science</i> , Vol. 272, pp. 263-69
	April 12, 1996
38.	Ogawa, Takehiko et al., <i>Transplantation of testis germinal cells into mouse seminiferous tubules</i> . <i>Int. J. Dev. Biol.</i> , 41:222-122 (1997).
39.	Ono T. et al., <i>Transfer of male or female primordial germ cells of quail into chick embryonic gonads</i> . <i>Exp Anim.</i> , 45(4):347-352 (Oct. 1996).
40.	Paterlini, P. et al., <i>Cylin A expression in human hematological malignancies: a new marker of cell proliferation</i> . <i>Cancer Res.</i> , 53(2):235-8, (Jan 15, 1993) ABSTRACT ONLY
41.	Pedersen, Roger A., <i>Cells for Medicine, Embryonic Stem Cells for Medicine</i> , <i>Scientific American</i> , pp. 68-73 (April 1999).
42.	Perez-Cruet, M. J., et al., <i>Adenovirus-Mediated Gene Therapy of Experimental gliomas</i> . <i>Journal of Neuroscience Research</i> , Vol. 39, pp 508-511(1994).
	<i>meiotic cell cycles</i> . <i>Dev. Biol.</i> , 10:173(1):69-78, (Jan 10, 1996).

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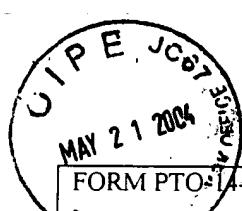
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							YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

43.	Pikaart, Michael J.. <i>Loss of transcriptional activity of a transgene is accompanied by DNA methylation and histone deacetylation and is prevented by insulators</i> . <i>Genes & Development</i> , 12:2852-2862. (1998).
	<i>by insulators</i> . <i>Genes & Development</i> , 12:2852-2862. (1998).
44.	Ravnik, S. E. et al., <i>The developmentally restricted pattern of expression in the male germ line of a murine cyclin A, cyclin A2, suggests roles in both mitotic and meiotic cell cycles</i> . <i>Dev. Biol.</i> , 10:173(1):69-78. (Jan 10, 1996). ABSTRACT ONLY
45.	Ravnik, S. E. et al., <i>Regulation of meiosis during mammalian spermatogenesis: the A-type cyclins and their associated cyclin-dependent kinases are differentially expressed in the germ-cell lineage</i> . <i>Dev Bio</i> , 207(2):408-18 (Mar 15, 1999). ABSTRACT ONLY
46.	Russell, L.D. et al., <i>Ultrastructural observations of spermatogenesis in mice resulting from transplantatin of mouse spermatogonia</i> . <i>J. Androl.</i> , 17(6):603-614 (Nov. 1996).
47.	Schmidt, Jerzy A. et al., <i>Control of Erythroid differentiation. Possible Role of the Transferrin cycle</i> . <i>Cell</i> , Vol. 48, 41-51 (Jul 4, 1986).
48.	Schiedner, Gudrun, <i>Genomic DNA transfer with a high-capacity adenovirus vector results in improved in vivo gene expression and decreased toxicity</i> , <i>Nature Genetics</i> , Vol. 18, pp. 180-183 (Feb 1998).
49.	Sweeney, Claire et al., <i>A distinct cyclin A is expressed in germ cells in the mouse</i> , <i>Development</i> , Vol. 122, pp. 53-64 (1996).
50.	Wagner, Ernst, <i>Transferrin-polycation conjugates as carriers for DNA uptake into cells</i> , <i>Proc. Natl. Acad. Sci. USA</i> , Vol 87, pp. 3430-3414 (May 1990).

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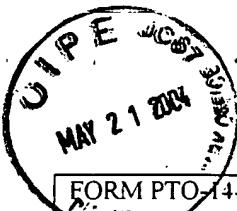
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

51.		Wolffe, A. P., <i>Packaging principle: how DNA methylation and histone acetylation control the transcriptional activity of chromatin</i> , <i>J. Exp Zool</i> , 282(1-2):239-44 (Sep-Oct 1998). ABSTRACT ONLY
52.		Yang, Rong et al., <i>Characterization of a Second Human Cyclin A That is Highly Expressed in Testis and in Several Leukemic Cell Lines</i> , <i>Cancer Research</i> , 57, pp. 913-920 (March 1, 1997).
53.		PCT International Search Report re PCT/US98/24238, International Filing Date: 13/11/1998, Priority Date: 14/11/1997.
54.		XP-002099974, J09220039, "Introducing Extraneous Gene Sperm Ovum Produce Transgenic Animal Comprise Introducing Extraneous Gene Liposome Complex Through Testicular Ovary Artery Sperm Testicular Ovum Ovary", Abstract Only.
55.		Bucci, L. R. et al., <i>Effects of busulfan on murine spermatogenesis: cytotoxicity, sterility, sperm abnormalities, and dominant lethal mutations</i> , <i>Research</i> , Vol. 176, pp. 259-268, (1987).
56.		Kormano, M. et al., <i>In vitro contractility of rat seminiferous tubules following 400 R whole-body X-irradiation</i> , <i>Strahlentherapie</i> Vol. 144, No. 6, pp. 713-718 (1972).
57.		Oakberg, E. F., <i>Effects of radiation on the testis</i> , <i>Handbook of Physiology, Endocrinology V</i> , pp. 233-243 (date unknown)
58.		Pont, Jorg et al., <i>Fertility after chemotherapy for testicular germ cell cancer</i> , <i>Fertility and Sterility</i> , Vol. 68, No. 1, pp. 1-5, (July 1997).
59.		Boujrad, N. et al., <i>Evolution of somatic and germ cell populations after busulfan treatment in utero or neonatal cryptorchidism in the rat</i> , <i>Andrologia</i> , 27(4):223-8 (Jul-Aug 1995). ABSTRACT ONLY

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609;
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List of Patents and Publications for Applicants Information Disclosure Statement		APPLICANT: Readhead et al.	
		FILING DATE: November 12, 2001	GROUP ART UNIT 1632

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

60.	Hasegawa, M., <i>Resistance of differentiating spermatogonia to radiation-induced apoptosis and loss in p53-deficient mice</i> , Radiat Res, 149(3):263:70, (Mar 1998). ABSTRACT ONLY
61.	Hopkinson, C. R., <i>The effect of local testicular irradiation on testicular histology and plasma hormone levels in the male rat</i> , Acta Endocrinol (Copenh), 87(2):413-23 (Feb 1998). ABSTRACT ONLY.
62.	Jiang, F. X., Anat Embryol, <i>Behaviour of spermatogonia following recovery from busulfan treatment in the rat</i> , 198(1):53-61 (Jul 1998). ABSTRACT ONLY.
63.	Kamtchouing, P., <i>Effect of continuous low-dose gamma-irradiation on rat Sertoli cell function</i> , Reprod Nutr Dev, 28(4B):1009-17 (1988). ABSTRACT ONLY.
64.	Kamtchouing, P., <i>Changes in androgen binding protein (ABP) production following continuous low dose gamma irradiation (IR) of adult rat</i> , Steroids, 52((4)):349-50, (Oct 1988). ABSTRACT ONLY.
65.	Kangasniemi, M., <i>Cellular regulation of basal and FSH-stimulated cyclic AMP production in irradiated rat testes</i> , 227(1):32-6 (May 1990). ABSTRACT ONLY.
66.	Kasuga, F., <i>The endocrine function of rat gonads with reduced number of germ cells following busulphan treatment</i> , Endocrinol Jpn, 33(1):105-15 (Feb 1986). ABSTRACT ONLY.
67.	Linder, R. E., <i>Endpoints of spermatotoxicity in the rat after short duration exposures to fourteen reproductive toxicants</i> , Reprod Toxicol, 6(6):491-505 (1992). ABSTRACT ONLY.
68.	Pineau, C., <i>Assessment of testicular function after acute and chronic irradiation: further evidence for an influence of late spermatids on Sertoli cell function in the adult rat</i> , Endocrinology, 124(6):2720-8 (Jun 1989). ABSTRACT ONLY.
69.	Pinon-Lataillade, G. et al., <i>Continuous gamma-irradiation of rats: dose-rate effect on loss and recovery of spermatogenesis</i> , Strahlentherapie, 161(7):421-6, (Jul 1985). ABSTRACT ONLY.

EXAMINER

DATE CONSIDERED

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70.	Pinon-Lataillade, G. et al., <i>Endocrinological and histological changes induced by continuous low dose gamma-irradiation of the rat testis</i> , Acta Endocrinol (Copenh), 109(4):558-62 (Aug 1985). ABSTRACT ONLY.
71.	Pinon-Lataillade, G. et al., <i>Influence of germ cells upon Sertoli cells during continuous low-dose rate gamma-irradiation of adult rats</i> , Mol Cell Endocrinol, 58(1):51-63, (Jul 1988). ABSTRACT ONLY.
72.	Pinon-Lataillade, G., <i>Effect of an acute exposure of rat testes to gamma rays on germ cells and on Sertoli and Leydig cell functions</i> , Reprod Nutr Dev 31(6):617-29. (1991) ABSTRACT ONLY.
73.	Russell, L. D. et al., <i>Ultrastructural observations of spermatogenesis following transplantation of rat testis cells into mouse seminiferous tubules</i> , J. Androl 17(6):615-27. (Nov-Dec 1996). ABSTRACT ONLY.
74.	Announcement re Bulsulfan (Myleran) Facts and Comparisons, pp. 1-5 (Aug 1997).
75.	PCT International Search Report re PCT/US99/10573, International filing Date 13/05/1999, Priority Date: 13/11/1998.
76.	XP-002117132
77.	PCT, International Search Report re PCT/US99/08277, International Filing date 04/15/99; Priority Date 11/13/98
78.	Derwent, XP-002115938
79.	Ikawa, Masahito et al., <i>Green fluorescent protein as a marker in transgenic mice</i> , Develop. Growth Differ., 37, 455-459 (1995), XP-002086829.

EXAMINER

| DATE CONSIDERED

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Statement

APPLICANT: Readhead et al.

FILING DATE:

November 12, 2001

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1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	6,215,039 B1	04/10/2001	Brinster, Ralph L.			
	5,858,354	01/12/1999	Brinster			
	4,736,866	04/12/1988	Lederer			
	5,741,957	4/21/1998	Deboer et al.			
	5,162,215	11/10/1992	Bosselman et al.			
	5,686,279	11/11/1997	Finer et al.			
	6,271,436 B1	08/07/2001	Piedrahita et al.			
	6,426,042 B1	07/30/2002	Asada et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES	TRANSLATION NO
	WO 99/25863 A1	05/27/99	PCT				
	WO 99/40213 A1	08/12/99	PCT				
	WO 00/29601 A1	05/25/00	PCT				
	WO 00/29602 A1	05/25/00	PCT				

OTHER ART (Including Author, title, Date, Pertinent Pages, Etc.)

80.	XP-000942592, Chang, Kyu-Tae et al., <i>Production of Transgenic Rats and Mice by the Testis-Mediated Gene Transfer</i> , <i>Journal of Repordocution and Development</i> , Vol. 45, No. 1, pp. 29-36 (1999).
81.	Sato, M. et al., <i>Direct Injection of Foreign DNA into Mouse Testis As A Possible Alternative of sperm-Mediated Gene Transfer</i> , <i>Animal Biotechnology</i> , Vol. 5, No. 1, pp. 19-31 (1994).
82.	Eck, Stephen L. et al., <i>Gene-Based therapy</i> , <i>Goodman & Gilman's The Pharmacological Basis of Therapeutics, Ninth Edition, Chapt 5</i> , pp. 77-101 (1996).
83.	Verma, Inder M. et al., <i>Gene therapy—promises, problems and prospects</i> , <i>Nature</i> , vo. 389, (18 September 1997).
84.	Wall, R. J., <i>Transgenic Livestock: Progress and Prospects For The Future</i> , <i>Theriogenology</i> , Vol. 45, pp. 57-68 (1996).
85.	Culver, <i>Gene Therapy</i> , "Ethical and regulatory considerations in human gene therapy," <i>Handbook for Physicians</i> , Vol. 7, pp. 79-80
86.	Maione, Barbara et al., <i>Sperm-Mediated Gene Transfer in Mice</i> , <i>Molecular Reporduction and Development</i> , Vol. 50, pp406-409 (1998).
87.	Sato, Masahiro et al., <i>Testis-Mediated Gene Transfer (TMGT) in Mice: Successful Transmission of Introduced DNA from F0 to F2 Generations</i> , <i>Transgenics</i> , Vol. 3, pp. 11-22 (1999)
88.	Lavitrano, M. Forni et al., <i>Sperm-Mediated Gene Transfer: Production of Pigs Transgenic for a Human Regular of Complement Activation</i> , <i>Transplantation Proceedings</i> , Vol. 29, pp. 3508-3509 (1997).
89.	Bachiller, Daniel et al., <i>Liposome-Mediated DNA Uptake by Sperm Cells</i> , <i>Molecular Reproduction and Development</i> , 30:194-200 (1991).

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